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> Level set methods, an important class of partial differential equation (PI
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3 Overview of augmented reality
Ronald Azuma
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5 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool,
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Real-time procedural shading was once seen as a distant dream. When
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by combining the effects of tens to hundreds of rendering ...

6 The elements of nature: interactive and realistic techniques

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemysla
Jos Stam, Jerry Tessendorf
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This updated course on simulating natural phenomena will cover the lat
techniques for simulating most of the elements of nature. The presenter
production, interactive simulation, and research perspectives ...

7 A simple mechanism for capturing and replaying wireless channels

Glenn Judd, Peter Steenkiste
August 2005 **E-WIND '05:** Proceedings of the 2005 ACM SIGCOMM worksh
approaches to wireless network design and analysis
Publisher: ACM
Full text available: Pdf (6.06 MB)   Additional Information: full citation, abstract, c

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Physical layer wireless network emulation has the potential to be a pow
important challenge in physical emulation, and traditional simulation, is
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Keywords: channel capture, emulation, wireless

8 Part III: dynamic texture synthesis

Vivek Kwatra
August 2007 **SIGGRAPH '07:** SIGGRAPH 2007 courses
Publisher: ACM
Full text available: Mov (106:46 MIN), Pdf (13.00 MB) Additional Information: full cit

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While we have treated image texture synthesis until now, several dynam
treated as texture. Ocean waves, waterfall, smoke from a chimney, fire
fields waving in the wind, etc. are all examples of dynamic ...

9 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ia

Leiohn
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM
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The graphics processor (GPU) on today's commodity video cards has ev
powerful and flexible processor. The latest graphics architectures provid
bandwidth and computational horsepower, with fully programmable ver

10 An interactive introduction to OpenGL and OpenGL ES programminç
Ed Angel, Dave Shreiner
December 2008 **SIGGRAPH Asia '08:** SIGGRAPH ASIA 2008 courses
Publisher: ACM
Full text available: Pdf (3.09 MB)   Additional Information: full citation, abstract

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OpenGL is a library for doing computer graphics. By using it, you can cr
that render high-quality color images composed of 3D geometric object:

11 Explorebots: a mobile network experimentation testbed
Teresa A. Dahlberg, Asis Nasipuri, Craig Taylor
August 2005 **E-WIND '05:** Proceedings of the 2005 ACM SIGCOMM worksh
approaches to wireless network design and analysis
Publisher: ACM
Full text available: Pdf (1.90 MB)   Additional Information: full citation, abstract, n

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 41, Citation (

In this paper, we detail our development of *Explorebots*--expandable, v
wireless robots built around MICA motes. We developed Explorebots as
NSF-funded Girl Scouts project. We've extended the ...

Keywords: mobile robotics, multi-hop networks, sensor networks, test

12 Communications of the ACM: Volume 51 Issue 1
January 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (5.97 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 746, Downloads (12 Months): 5083, Cita

13 High dynamic range imaging
Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM
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Andrew Glasner
July 2006 **SIGGRAPH '06:** SIGGRAPH 2006 Courses
Publisher: ACM
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Computer graphics isn't just a bunch of algorithms and programs: it's a
imagination, and a tool for investigating the world around us. Graphics
invent new kinds of patterns and shapes, build up ...

15 Modern approaches to augmented reality
Video files associated with this course are available from the ci
Oliver Bimber, Ramesh Raskar
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16 interactions: Volume 15 Issue 3
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Oliver Bimber, Ramesh Raskar
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Ed Angel, Dave Shreiner, Vicki Shreiner
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